VER0220094800

HIGH DEFINITION DIGITALE SATELLITE-RECEIVER

DVB 4800

Fig. 1.1: DVB 4800 (Symbol picture)

USER MANUAL

CREATE MORE XITEMENT

Imprint

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Designed by cmx® in Europe | Assembled in China

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1. General

1.1. Safety precautions

- ⚠ Only connect to mains power supply (230 Volt/50 Hz).
- ⚠ Do not place containers filled with water on top of the device.
- ⚠ Do not place device in close proximity of water (e.g. sink, wash basin, etc.). The device can fall into the water and cause a short circuit.
- ⚠ The device consumes some power during standby operation. For zero power consumption disconnect from mains power supply.
- ⚠ During a thunderstorm disconnect the receiver from mains power supply and disconnect the LNB cable to the satellite dish.
- ⚠ Place the device on a stable surface to prevent it from tipping over and causing damages or injuries.
- ⚠ Condensation can form if the device is placed in cold surroundings. Leave the device for at least one hour in standby mode.
- ⚠ Keep at least 10 cm distances at top and rear and 5cm at the sides for proper ventilation to avoid overheating.
- ⚠ Do not subject the device to direct sunlight or high temperatures, this can result in fire.

1.2. Disposal of waste electronic equipment

Your product is manufactured from high quality raw materials and should be recycled.

Ask your municipality for collecting points for waste electronic equipment.

Do not dispose of old appliances with the household waste.

The symbol on the product, the instructions for use or the packing will advert about the methods for disposal.

1.3. Battery disposal

The law requires returning exhausted batteries to public collection points or the dealer.

Do not dispose of exhausted batteries with the household waste.

1.4. Copyright

It is illegal to copy, send, exhibit, broadcast via cable, publicly show or rent copyrighted materials without consent.

1.5. Hearing protection

- Select a moderate volume to protect your hearing.
- Only turn the volume to a level where you can still hear ambient noise.

1.6. Cleaning and maintenance

⚠ Before cleaning disconnect from mains power supply.

⚠ Do not clean with liquid cleaning agents or a wet cloth, this can cause a short circuit.

- **Cleaning the casing**

  Clean the casing with a dry cloth.

2. Features

This satellite receiver DVB 4800 allows you to receive and playback free-to-air not encrypted channels with a CI module (common interface) and corresponding CAM card (smart card).

⚠ CI-Module and CAM card are not including in delivery and in specialized traders available.

3. Location of controls

3.1. Main unit - front

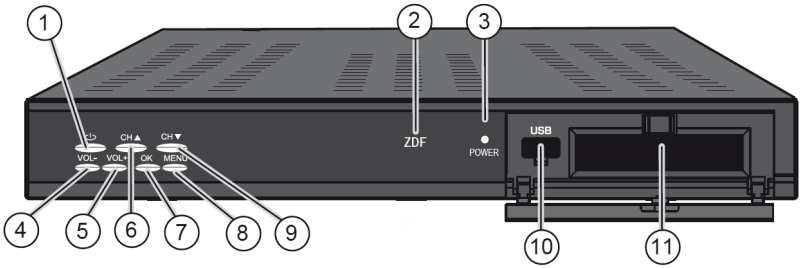


Fig. 3.1: front DVB 4800 (Symbol picture)

1	⏻ STANDBY	On/off
2	VFD	Display
3	POWER	LED for operation
4	VOL-	Decrease volume / cursor left
5	VOL+	Increase volume / Cursor right
6	▲CH +	Channel changing / next channel
7	OK	Confirm the range
8	MENU	Menu button
9	▼CH -	Channel changing / previous channel
10	USB	Port for MP3 player / USB stick
11	CI	Port for Smart card

3.2. Main unit - rear

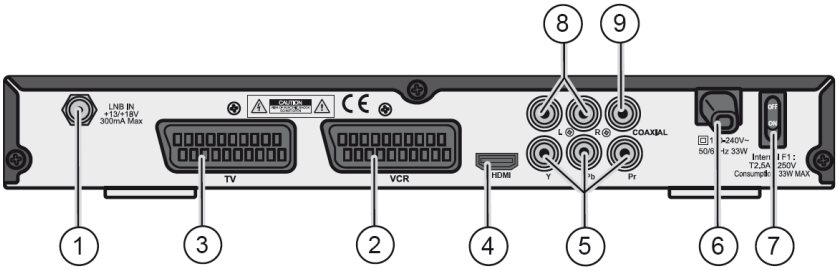


Fig. 3.2: rear DVB 4800 (Symbol picture)

1	LNB IN	SAT antenna input (75 Ω input)
2	VCR	SCART in-/output for A/V-recorder
3	TV	SCART output for TV
4	HDMI	HDMI Digital Audio/Video output
5	YPbPr	Component output
6	100-240V~	Power cable
7	ON/OFF	Power switch
8	L / R	2 channel audio output
9	COAXIAL	coaxial digital audio output

3.3. Remote control

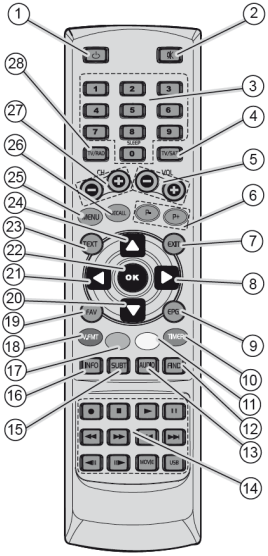


Fig. 3.3: infrared remote control DVB 4800 (Symbol picture)

1	⏻ STANDBY	On/off
2	MUTE	Mute the sound
3	0 - 9	numbers / digit entry (A-Z); 0; Sleep timer
4	TV / SAT	Toggle between TV/SAT
5	VOL -/+	Decrease volume / increase volume
6	P- / P+	By activated program list: changing between program lists
7	EXIT	Menu exit / flashes fade out
8	►	Cursor button, Normal mode: increase volume
9	EPG	Electronic program guide
10	TIMER	Timer / function button BLUE
11	YELLOW	Function button YELLOW
12	FIND	Program search by name
13	AUDIO	Select audio track
14	PVR	For recording and playback
15	SUBT	Subtitle disable/enable (if sent)

16	INFO	Accessing program parameters
17	GREEN	Function button GREEN
18	V-FMT	Changing size of picture / function button RED
19	FAV	Favourite lists indicate
20	▼	Cursor button/ Normal mode: channel change
21	◄	Cursor button, normal mode: decrease volume
22	OK	Confirm the range
23	TEXT	View teletext (switch transparent)
24	▲	Cursor button, normal mode: channel change
25	MENU	Menu button
26	RECALL	Previous program
27	CH -/+	Previous program /next program
28	TV/ RAD	Toggle between TV/RADIO

4. Preparation

4.1. Connection the system

Follow these steps to connect the system:

⚠ Ensure that all units are turned off when connecting.

⚠ To avoid image interference only connect the satellite receiver via a video connection to your TV set.

1. Connect the mains power cable to a wall outlet.
2. Connect the TV with the receiver.

⚠ Scart, HDMI, RCA, component, 2-channel or coax cable are not supplied.

⚠ You can connect the satellite receiver in several modes to TV set, recording device (e.g. VCR) and other devices. Find details in chapter 4.1.1.

⚠ Heed the user manuals for your TV set ant the other devices.

4.1.1. Connection with SCART cable

1. Connect the SCART cable into the SCART jack “TV” on the receiver.
2. Connect the SCART cable with the TV.
3. To connect video devices connect a scart cable to the receiver’s “VCR” scart connector.

⚠ To connect hi-fi systems connect the RCA cable to the receiver’s „AUDIO R“ and „AUDIO L“ connectors.

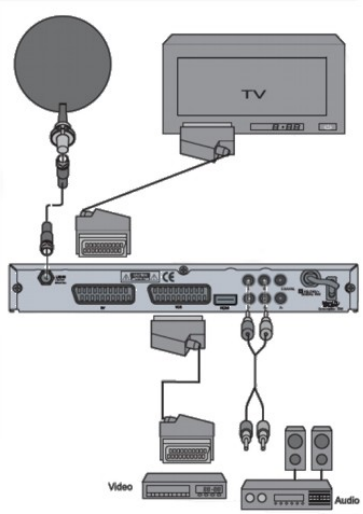


Fig. 4.1: Connection with scart cable

4.1.2. Connection with HDMI cable

1. Connect the HDMI cable into the HDMI jack “HDMI” on the receiver.
2. Connect the HDMI cable with the TV.
3. To connect video devices connect a scart cable to the receiver’s “VCR” scart connector.
4. To connect hi-fi systems connect the RCA cable to the receiver’s „AUDIO R“ and „AUDIO L“ connectors

⚠ Simultaneous operation of the receiver via SCART and HDMI connectors is not possible. You have a signal either on the SCART or the HDMI output.

⚠ Playback from a video device connected to “VCR SCART” via the HDMI connector is not possible.

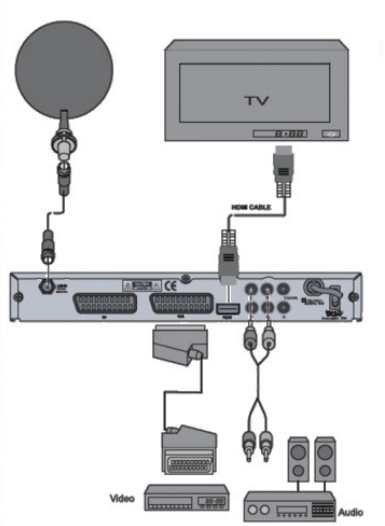
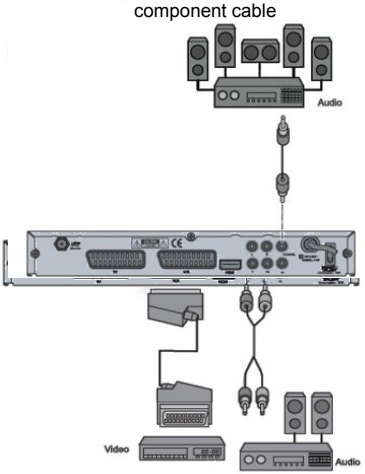


Fig. 4.2: Connection with HDMI cable

4.1.3. Connection with component cable

Connect a TV set with YUV connectors (YPbPr components) via a YUV component cable (YPbPr) to the receiver's YPbPr component output.

Fig. 4.2: Connection with component cable



1. Connect the component cables with the receiver.
2. Connect the component cable with the TV.
3. To connect video devices connect a scart cable to the receiver's "VCR" scart connector.

⚠ The component cable does not send audio signals to your TV set, connect your receiver to a hi-fi system

5. Connect the RCA cable to the receiver's „AUDIO R" and „AUDIO L" connectors

⚠ Alternatively connect a digital audio receiver for 5-CH audio via the digital "COAX" output to your receiver.

4.2. Connect to hi-fi system

For audio playback connect your hi-fi system via RCA cable to the receiver.

⚠ You need not turn your TV set on to use the digital radio function of the receiver. You have the audio output from your connected hi-fi system. Use your TV set only to select the radio station.

1. Connect the „AUDIO-R" and „AUDIO-L" on the audio inputs from the stereo system.

⚠ Do not connect your hi-fi's phono input to the receiver; this can damage your hi-fi-system.

4.3. Connect to digital audio amplifier

For 5-CH audio (Dolby Digital/AC3) connect your digital audio receiver to the receiver's coax output.

⚠ Do not connect your hi-fi's phono input to the receiver; this can damage your hi-fi-system.

⚠ For radio reception you need not turn your TV set on. To receive the TV sound via your hi-fi system turn your TV set on.

1. Connect the coax cable to the receiver's „COAXIAL" connector.
2. Connect the coax cable to the digital audio amplifier.
3. Activate the receiver's digital audio output in the menu item system settings TV system.

4.4. Insert batteries

The battery compartment is at the rear of the remote control.

1. Insert two AAA batteries (1,5V) observing the polarity (+ and -) as marked inside the battery compartment.

⚠ Point the remote control towards the IR receiver on the main unit. (Range of 5m with 60° angle to both directions).

⚠ The lifetime of the battery is approximately 6 months with normal use.

⚠ To avoid damage remove the battery from the remote control during extended periods of non-use.

5. Start of operation and configuration

5.1. Start of operation

See the details in chapter preparation (see 4.1 connection the system)

1. Select the AV channel on your TV set.

⚠ Some TV sets detect the satellite receiver's output switching voltage and switch SCART connection automatically to AV operation.

⚠ The satellite receiver's main power switch is at the rear of the unit and must be set to "ON".

⚠ The default password is „***0000***".

2. In the submenu *installation* select the item *Antenna connector*. Select the antenna type.
3. In the submenu *Installation* select the item *Satellite list*.

A list with all stored satellites is displayed.

⚠ Press OK to activate or deactivate the desired satellite, a check mark is displayed.

4. Select menu item *Antenna connector* to set the LNB frequency and press EXIT to finish.

5. The submenus *single / multi satellite* allow setting the automatic channel search, press OK to confirm and start.

5.2. General operation

For general navigation and control via remote control press ▲, ▼, ►, ◄. And confirm with OK or press EXIT to cancel a function. Besides navigation and control via the cursor buttons you have the shortcut keys, which are described in chapter 3.3 remote control.

	Program name
	Received satellite
	Current date
	Current time (according to setting in *time* menu)
	Program memories
TXT-Symbol	Is displayed if the select channel offers teletext
EPG-Symbol	Is displayed if the selected channel offers the electronic program guide
HEART-Symbol	Is displayed if the selected channel is inserted in one of the favourite lists.
Info	Displays information for the current and next program
Info	Display information about the active program list.

5.3. Configuration

Press MENU to display the main menu.

Edit channel list	TV channel list
	Radio channel list
	Delete all
Installation	Antenna connector
	Satellite list
	Antenna setting
	Single satellite search
	Multi satellite search
	TP list
System setting	Languages
	TV system
	Local time setting
	Timer setting
	PIN
	OSD setting
	Favorite
	Others
Settings	Information
	Default setting
	Software-Update
	Common Interface
	USB
	Remove safely USB device
Games	Tetris
	Othello
	Sudoku
External memory	Recording manager

	HDD information
	HDD format
	PVR setting

5.3.1. Edit channel list

Select the desired menu item and press OK to open the submenu.

5.3.1.1. TV program list

- FAV (Favorites)

1. Press FAV to select the favorites.
   The field „FAV“ is highlighted and activated.
2. Select the desired channel and press OK to confirm.
   Select the favorite list to insert the selected channel.

⚠ The heart icon is displayed next to the selected channel.

- locking

1. Press the shortcut key RED to select channels to be locked.
   The field “locking“ is highlighted and activated.
2. Select the desired channel and press OK to confirm.

   Enter your PIN (default PIN is „0000“) to confirm your selection.

⚠ The lock icon is displayed next to the selected channel.

⚠ Press the shortcut key RED to deactivate the function.

⚠ Press EXIT to exit the menu.

3. To view locked channels enter PIN first.

⚠ Channel lock must be activated in system setting – PIN. The locking functions are invalid if deactivated.

- Skipping

1. Press the shortcut key GREEN o select channels to be skipped.

   The field „skip“ is highlighted and activated.
2. Select the channel and press OK to confirm.

⚠ The skip icon is displayed next to the selected channel.

⚠ Press the shortcut key GREEN to deactivate the function.

⚠ Press EXIT to exit the menu.

- Moving

1. Press shortcut key YELLOW to select the channels.

   The field “Move” is highlighted and activated. You can move several channels simultaneously.

2. Select the channel and press OK to confirm.

   The move icon is displayed next to the selected channel.

3. Navigate the cursor to the position to insert the channels.

4. Press shortcut key YELLOW again to insert the channels in the current position.

⚠ Press EXIT to exit the menu.

- Editing

1. Press shortcut key BLUE to edit.

   - ABC

     Press the shortcut key RED to select the sorting type for the channel list.

Name ascending (A-Z)	Name descending (Z-A),
FTA / Pay TV	Locked channels

   - Changing

     Press shortcut key GREEN to select the channel to be renamed.

     ⚠ Press OK to confirm.

     Follow the screen prompts to rename the channel.

   - Delete

     Press shortcut key BLUE to select the channel to be deleted.

     ⚠ Press OK to confirm.

     The delete icon is displayed next to the selected channel.

     ⚠ Press EXIT to exit the menu.

When exiting the menu “Edit channel list” confirm the security prompt to save the changes.

5.3.1.2. Radio channel list

For editing the radio channel list same above functions as described for TV channels, are available.

5.3.1.3. Delete all

Enter your valid password and confirm the security prompt to delete all saved TV and radio channels.

⚠ Reset to default to restore the factory channel list.

5.3.2. Installation

5.3.2.1. Antenna connector

Select your antenna type.

5.3.2.2. Satellite list

Display all saved satellites.

1. Press OK to activate/deactivate the desired satellite.
   A check mark is displayed.

- Changing

  Press shortcut key RED to edit the satellite name and the position.

⚠ This setting is important for rotating motor antenna.

- New

  Press shortcut key GREEN to manually add a satellite.

- Delete

  Press shortcut key BLUE to delete a saved satellite and its channels.

5.3.2.3. Antenna setting

Set the connected satellite antenna.

- Fixed orientation

Satellite	List of active satellites from the satellite list.
LNB-Frequency	Set LNB frequency. Default setting is “universal“.

Transponder	List of programmed transponders
DiSEqC 1.0	Set to multi satellite reception
22K	Automatically setting
Polarization	Set polarization

- Motor Antenna

LNB type	Set LNB type
Motor type	Set motor type
Local. Longitude	Only motor type - USALS
Delete all	Delete satellite positions Not possible for motor type
Motor settings	Access DiSEqC 1.2 control centre
Limitation	Select turning radius

- Single satellite search

Search activated satellite in this submenu for channels.

Satellite	Select satellite
Only for FTA	Yes: search free-to-air channels No: search all channels
Channel search	Search TV channels, radio channels or both
Network search	Only available in search mode “scan preset”
Search mode	Auto scan, scan preset, only created Transponders are scanned
Search	Press OK to start scanning. Channels are added to general satellite list.

- Multi satellite search

For complete satellite scan you have the same functions as for above single satellite search.

- TP List

Edit the transponders of active satellites in this submenu.

Changing	Press shortcut key RED to change transponder

	parameters.
New	Press shortcut key GREEN to add new transponder.
Delete	Press shortcut key YELLOW to delete transponder.
Search	Press shortcut key BLUE to scan transponder for new channels.

5.3.3. System setting

Select the desired menu item and press OK to open the submenu.

5.3.3.1. Language

Language	Selection the language
First audio channel	Select audio language. (if offered by station)
Second audio channel	Select audio language (if offered by station)
Tele text	Select characters

5.3.3.2. TV system

Video resolution	Selection of resolution (Standard 1080i_25) ⚠ HD programs from 720p
Size of picture	Selection from the size of picture 4:3 LB, 4:3 PS, 16:9, AUTO (preset)
Video signal	Setting the colour scheme ⚠ HD programs – setting YUV
Screen setting	brightness, contrast, saturation
HDMI video output	Preset ⚠ Y, CB, CR – 4:4:4
Digital audio output	Preset ⚠ LPCM Out ⚠ Change digital audio amplifier to “BS OUT”.

5.3.3.3. Local time setting

- GMT use

  Switch on and off

GMT on	GMT Difference: select local shift Summer time: on/off
GMT off	Adjust date Adjust time

5.3.3.4. Timer setting

8 timer settings are available to perform a service at a preset time, e.g. recording.

- Timer number
  Select timer 1 through 8
- Timer mode
  Select between *Off*, *Once*, *daily* and *weekly.*
- Timer service
  VCR – at the preset time the receiver switches to the programmed event (also in standby mode).

  USB – Program time - controlled recording in case an external USB device is connected.
- Start channel
  Select the channel to be started.
- Start date
  Select the date for the timer.
- On time
  Select the on time for the timer.
- Duration
  Select the duration for the timer.

  Press OK to save your settings.

5.3.3.5. PIN

Enter your PIN (the default PIN is „0000“)

- Menu lock
  Activate/deactivate the menu lock
- Program lock
  Activate/deactivate the channel lock

- New password

  Enter a new password.

- Confirm password
  Repeat your new password.

⚠ After confirming the new password it cannot be cancelled!

5.3.3.6. OSD setting

- OSD duration
  Select the duration of the OSD overlay.
- OSD transparency
  Select the transparency of the OSD overlay.

5.3.3.7. Favorite

8 favorite lists are available and can be renamed.

5.3.3.8. Other

- LNB power supply

  On/off. Preset is activating.

  ⚠ Turn the power supply off in case antenna or cable system without power supply is connected to the receiver.

- Sound signal
  Activate/deactivate the acoustic satellite finder signal.

5.3.4. Setting

5.3.4.1. Information

Open the submenu to view relevant data for the satellite receiver.

5.3.4.2. Default setting

Confirm again to reset to default setting. Please follow the screen prompts.

⚠ Press and hold the standby button on the front of the receiver for 10 seconds to reset to default settings.

5.3.4.3. Software update

⚠ Software update is normally **not** necessary for receiver operation.

- Via USB
  Software update via USB port is preferred.
- Via satellite
  Necessary data are preset.

  Confirm the field “start” by pressing OK.

  ⚠ Direct your satellite system to ASTRA1 19,2°east for software update.

  ⚠ Software update does not save new TV channels, but only serves the software update of the receiver.

  ⚠ Software update may take up to one hour.
  We recommend resetting to default settings before and after software update.

  The saved channel lists are deleted.

5.3.4.4. Common Interface

The common interface slot serves extension with CI module to receive encrypted channels (Pay TV) with Cam card (smart card). The encryption system must correspond with the used smart card.

⚠ CI module and Smart card are not supplied.

⚠ Inserting CI module or smart card incorrectly can lead to receiver, CI module or smart card being damaged.

5.3.4.5. USB

⚠ This point is only active with a readable storage device being connected. The readable files are JPEG images.

1. Connect the USB storage media.
   Readable files and folders are displayed.

Single images	Are displayed in the preview Press OK to switch into the full screen mode.
Several images	1. Press the function button GREEN and select *add playlist*. (Each image single). 2. Confirm with OK. 3. Press the function button RED. Playlist will appear.

5.3.4.6. Remove safely USB device

It is for safely removal of the USB storage media from the receiver.

5.3.5. Games

There are 3 games available for entertainment.

5.3.6. External memory

Connect a USB storage device to use this menu item.

⚠ Programs that were recorded encrypted can be played back and decrypted after inserting the corresponding CI module and smart card.

5.3.6.1. **Recording manager**

Here you can edit recorded programs.

Rename	Press the function button RED.
Lock	Press the function button GREEN.
Delete	Press the function button BLUE.

5.3.6.2. HDD information

Information regarding the connected USB storage device.

5.3.6.3. HDD format

Format the connected USB storage device.

⚠ During formatting all saved data on the storage device are deleted.

5.3.6.4. PVR setting

- Time shift

  The time shift function allows you to interrupt a currently received program and resume watching it later. The receiver records the program to the USB storage device.

  The displayed image is frozen and can be resumed later. This menu item must be activated to have the function.

1. Press PAUSE once in normal mode.

   When you are ready to resume watching, press PLAY. The program is resumed from this point in time, when you pressed PAUSE.

⚠ In case this menu item is deactivated only the image is frozen after pressing PAUSE.

⚠ The time shift recording is not permanently saved on HDD:

2. Selecting a different channel or stopping the recording will cancel the time shift recording.

⚠ The time shift function has a capacity of max 90 minutes.

- Skipping
  Select skipping steps in playback mode with the skip buttons.

⚠ Minimum steps are 30 seconds, maximum steps are 30 minutes.

- TS file size
  Select the file size for partitioning the recording to external USB storage de

⚠ The recommended size is 1GB.

- Time shifting for recording
  Activate/deactivate time shift function to record programs.
- Record subtitles
  With this function activated the subtitles (if broadcast) are recorded as well.

6. Troubleshooting

Contact the service hotline or use the contact form on the homepage in case of problems with the system that are not dealt with here.

Malfunction	Solution
Display is not flashing	▪ Check the power cord and the power socket. ▪ Turn on the power switch on the rear side.
No picture / no sound	▪ Ensure the connectors. ▪ Check the alignment of the antenna. ▪ Check the settings of the devices.
No / low signal	▪ Check the alignment of the antenna.

	■ Ensure the connectors. ■ Check the function from the LNB.
Remote control does not work	■ Decrease the distance to the system. ■ Exchange the batteries. ■ Point the remote control towards the system's IR sensor.
Image black & white	■ Select correct color standard.
Software crashed	■ Disconnect from mains power supply and reconnect after a few seconds.

7. Warranty

This system comes with a 24-month warranty from the date of purchase.

Please keep your purchase documents!

In case of manufacturing or material defects the warranty consists of rectification of defects or exchange.

The warranty does not include damages or

- Malfunctions due to improper use
- Wear and tear
- Repairs by third parties.

The warranty does not include

- Display damage
- Firmware update
- Accidental damage.

Repair does not extend the warranty period.

7.1. Warranty procedure

In case of malfunctions, please contact:

- Your dealer
- Service hotline
  - Austria: +43 0720 502671 – please dial with the zero!
  - Germany: +49 (0)180 166 66 264 621
  - Switzerland: +41 (0) 848 00 3322
- Contact form – www.cmx-electronics.com

7.2. Warranty has expired

Please contact us by phone or contact form in case your warranty has expired. We will help you!

Please inform us about the following:

- Unit type
- Purchase date
- malfunction

7.3. Shipping the unit

To ensure a quick response, please observe the following in case you send us the unit:

- Send unit and accessories
- Send postage free to service centre
- Attach purchase documents
- Attach filled-out warranty card
- Error description

Example for error description

Wrong	Correct
Unit is defect	Unit does not respond.
unit isn't working	Unit cannot be switched on

- Sender information: Name, address, ZIP code, city, phone number and e-mail address.

Please cut out the warranty card.

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2 Jahre Garantie auf Gerät und Zubehör

Die Garantie ist nur gültig bei gleichzeitiger Vorlage von Rechnung und Garantiekarte.

Der Garantieanspruch erlischt unter folgenden Bedingungen:

- Ändern oder entfernen der Seriennummer,
- Änderung oder Verlust der Garantiekarte,
- Kauf bei nicht autorisiertem Händler.

Bei falscher Anwendung, Missbrauch oder versehentlicher Beschädigung des Gerätes, erlischt der Garantieanspruch. Dazu zählen:

- Fehlfunktion, die durch das Gerät nicht geeignete Versorgungs-/Betriebsspannung verursacht wurden,
- Mechanische Beschädigung,
- Durchgeschnittene Kopfhörerkabel.

Die Vertragsbedingungen können ohne vorheriger Benachrichtigung geändert werden.

2 years guarantee period for product and accessories

Guarantee is valid only when dealer's invoice is presented together with this guarantee card.

Guarantee does not cover under the following conditions:

- Serial number has been altered or removed,
- Guarantee card is lost or amended,
- Purchase at unauthorized dealer.

Guarantee will be treated as void if product being misused incorrectly used or damaged accidentally, including:

- Malfunction caused by irregular voltage supply,
- Mechanical damage,
- Cut earphone cables.

Terms subjected to change without previous notice.

Darius HandelsgmbH · Konstanziagasse 31-35 · 1220 Wien · Austria · sales@darius.at

GARANTIEKARTE GUARANTEE CARD

Produkt
Product

Seriennummer
Serial number

Händlername
Dealer's name

Kaufdatum
Date purchased

Darius Servicecenter · Ödenburgerstrasse 21-23 · 1210 Vienna · Austria | Service MO - DO 8.00 - 16.30 · FR 8.00 - 13.00 ·|
Hotline Austria +43 0720 50 26 71 (Inlandstarif) |
Hotline Germany +49 (0) 180 166 66 264 621 |
Hotline Switzerland + 41 (0) 848 00 33 22

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8. Technical specifications

Receiver	
Frequencies	950 ~ 2150 MHz
Video resolution	720 x 576 (Pal) / 720 x 480 (NTSC) / 1280 x 720 / 1920 x 1080
IF bandwidth	55 MHz / 8 MHz (under 5 MS/s)
DiSEqc	Version 1.0 / 1.2
Symbol rate	1 ~ 45 MS/s
Error correction (FEC)	1/2, 2/3, ¾, 5/6, 7/8, auto
Input speed	Max. 15 Mbit/s
LNB	
Power output	13/ 18V GS / 0,30 A-max.
Control	22 kHz ± 2 kHz / 0,6 V pp ± 0,2 V
Connectors	
Inputs	Antenna (Type F, IEC 169-24) Scart: Video CVBS, Audio L/R for VCR USB 2.0
Outputs	twice Scart: Video CVBS, Audio L/R for VCR, TV 2 channel audio coaxial digital audio HDMI Digital audio/video component (YUV)
General	
Size of picture	44:3 LB, 4:3 PS, 16:9

Power consumption	25 Watt (Standby 2 Watt)
Mains power	AC 100-240 V ~ 50/60 Hz
Temperature	operation: 0°C ~ 40 °C storage: -40°C ~ 65°C
Dimensions	310 x 50 x 200 mm

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